



Ramsar Information Sheet

Published on 6 April 2017

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Sweden Åsnen



Designation date	12 June 1989
Site number	429
Coordinates	56°37'54"N 14°43'07"E
Area	17 866,00 ha

Color codes

Fields back-shaded in light blue relate to data and information required only for RIS updates.

Note that some fields concerning aspects of Part 3, the Ecological Character Description of the RIS (tinted in purple), are not expected to be completed as part of a standard RIS, but are included for completeness so as to provide the requested consistency between the RIS and the format of a 'full' Ecological Character Description, as adopted in Resolution X.15 (2008). If a Contracting Party does have information available that is relevant to these fields (for example from a national format Ecological Character Description) it may, if it wishes to, include information in these additional fields.

1 - Summary

Summary

The site Åsnen consists of a large, shallow and mesotrophic freshwater lake. The lake has many bays and islands. The northern part of the lake is surrounded by flat meadows and marshlands which are liable to flooding. The rest of the surroundings have a relatively high proportion of broad-leaved deciduous forest. Other parts have a stony shoreline, giving way to coniferous forest with old pines. There are several bogs scattered around the lake.

The mosaic and interaction of the limnic and terrestrial habitats is the key to the extraordinarily rich biodiversity at the site and its surroundings. The lake supports a rich variety of fish, including rare species. The site also supports a rich community of breeding birds and is an internationally important staging area for migratory Anatidae. Among breeding birds is *Gavia arctica* and *Pandion haliaetus* prominent species.

2 - Data & location

2.1 - Formal data

2.1.1 - Name and address of the compiler of this RIS

Compiler 1

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Compiler 2

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2.1.2 - Period of collection of data and information used to compile the RIS

From year	2006
To year	2015

2.1.3 - Name of the Ramsar Site

Official name (in English, French or Spanish)	Åsnen
Unofficial name (optional)	originally designated as 'Lake Åsnen'

2.1.4 - Changes to the boundaries and area of the Site since its designation or earlier update

(Update) A. Changes to Site boundary	Yes <input checked="" type="radio"/> No <input type="radio"/>
(Update) The boundary has been delineated more accurately	<input checked="" type="checkbox"/>
(Update) The boundary has been extended	<input type="checkbox"/>
(Update) The boundary has been restricted	<input type="checkbox"/>
(Update) B. Changes to Site area	the area has increased
(Update) The Site area has been calculated more accurately	<input type="checkbox"/>
(Update) The Site has been delineated more accurately	<input checked="" type="checkbox"/>
(Update) The Site area has increased because of a boundary extension	<input type="checkbox"/>
(Update) The Site area has decreased because of a boundary restriction	<input type="checkbox"/>

2.1.5 - Changes to the ecological character of the Site

(Update) 6b i. Has the ecological character of the Ramsar Site (including applicable Criteria) changed since the previous RIS?	Yes (likely)
(Update) Are the changes	Positive <input checked="" type="radio"/> Negative <input type="radio"/> Positive & Negative <input type="radio"/>
(Update) Positive %	1
(Update) No information available	<input type="checkbox"/>
(Update) Changes resulting from causes operating within the existing boundaries?	<input type="checkbox"/>

(Update) Changes resulting from causes operating beyond the site's boundaries?

(Update) Changes consequent upon site boundary reduction alone (e.g., the exclusion of some wetland types formerly included within the site)?

(Update) Changes consequent upon site boundary increase alone (e.g., the inclusion of different wetland types in the site)?

(Update) Please describe any changes to the ecological character of the Ramsar Site, including in the application of the Criteria, since the previous RIS for the site.

The boundary has been better delineated. This has resulted in that more open water, important breeding areas on land along the shore and more wet meadows adjacent to the lake have been included. It has also resulted in that some built up areas, arable land and dry forest as well as some small adjacent wetland (that don't have the conservation values that was the cause of the designation) have been excluded.

(Update) Is the change in ecological character negative, human-induced AND a significant change (above the limit of acceptable change) Yes

2.2 - Site location

2.2.1 - Defining the Site boundaries

b) Digital map/image

<1 file(s) uploaded>

Former maps

Boundaries description

The boundary follows the lake in a distance between 20 -100 metre up from the shores. Islands bigger than about 60 ha are excluded. The site also includes lake Lidhemssjön about 1 km east of lake Åsnen and the river Aggaån that connects Lidhemssjön with Åsnen.

2.2.2 - General location

a) In which large administrative region does the site lie?

b) What is the nearest town or population centre?

2.2.3 - For wetlands on national boundaries only

a) Does the wetland extend onto the territory of one or more other countries? Yes No

b) Is the site adjacent to another designated Ramsar Site on the territory of another Contracting Party? Yes No

2.2.4 - Area of the Site

Official area, in hectares (ha):

Area, in hectares (ha) as calculated from GIS boundaries

2.2.5 - Biogeography

Biogeographic regions

Regionalisation scheme(s)	Biogeographic region
Udvardy's Biogeographical Provinces	10 Boreonemoral
Bailey's Ecoregions	240 Marine Division
Other scheme (provide name below)	See textbox below
Freshwater Ecoregions of the World (FEOW)	406 Northern Baltic drainages
EU biogeographic regionalization	Boreal

Other biogeographic regionalisation scheme

Nordiska Ministerrådet (NMR): Boreonemoral zon
TEOWs and EEA 2002 DMEER: Sarmatic mixed forest

3 - Why is the Site important?

3.1 - Ramsar Criteria and their justification

- Criterion 1: Representative, rare or unique natural or near-natural wetland types

Hydrological services provided

Other ecosystem services provided

Other reasons

- Criterion 2 : Rare species and threatened ecological communities

- Criterion 3 : Biological diversity

Justification

- Criterion 4 : Support during critical life cycle stage or in adverse conditions

- Criterion 5 : >20,000 waterbirds





Overall waterbird numbers

Start year

Source of data:

- Criterion 6 : >1% waterbird population























3.2 - Plant species whose presence relates to the international importance of the site





































Scientific name	Common name	Criterion 2	Criterion 3	Criterion 4	IUCN Red List	CITES Appendix I	Other status	Justification
<i>Dichelyma capillaceum</i> 		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	Swedish Red List 2015 (NT).	See textbox below the table and in section 3.1.
<i>Pedicularis sylvatica</i> 		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	Swedish Red List 2015 (NT).	See textbox below the table and in section 3.1.
<i>Pilularia globulifera</i> 		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	NT 	<input type="checkbox"/>	Swedish Red List 2015 (VU).	See textbox below the table and in section 3.1.

Criterion 2: For all species, their status in the Swedish Red List and general information for that classification as well as their distribution etc can be found at <http://artfakta.artdatabanken.se/>. Observation of the species can be found in the Swedish database for observations <http://www.artportalen.se/>.

Pilularia globulifera has been found in a few places but the total distribution of *Pilularia globulifera* at the site is not known.

3.3 - Animal species whose presence relates to the international importance of the site

Phylum	Scientific name	Common name	Species qualifies under criterion				Species contributes under criterion				Pop. Size	Period of pop. Est.	% occurrence 1)	IUCN Red List	CITES Appendix I	CMS Appendix I	Other Status	Justification
			2	4	6	9	3	5	7	8								
Birds																		
CHORDATA/AVES	<i>Actitis hypoleucos</i> 	Common Sandpiper	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC 	<input type="checkbox"/>	<input type="checkbox"/>		Breeding, staging. See textbox below the table and in section 3.1.
CHORDATA/AVES	<i>Alcedo atthis atthis</i> 	Kingfisher	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC 	<input type="checkbox"/>	<input type="checkbox"/>	Swedish Red List 2015 (VU).	See textbox below the table and in section 3.1.
CHORDATA/AVES	<i>Anas clypeata</i> 	Northern Shoveler	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC 	<input type="checkbox"/>	<input type="checkbox"/>		Breeding, staging, foraging. See textbox below the table and in section 3.1.
CHORDATA/AVES	<i>Anas strepera</i> 	Gadwall	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC 	<input type="checkbox"/>	<input type="checkbox"/>		Breeding, staging, foraging. See textbox below the table and in section 3.1.
CHORDATA/AVES	<i>Anser anser</i> 	Greylag Goose	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC 	<input type="checkbox"/>	<input type="checkbox"/>		Breeding, staging, foraging. See textbox below the table and in section 3.1.
CHORDATA/AVES	<i>Anser fabalis</i> 	Bean Goose	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	15000			LC 	<input type="checkbox"/>	<input type="checkbox"/>	Swedish Red List 2015 (NT).	Refuge during the winter season, staging. See textbox below the table and in section 3.1.
CHORDATA/AVES	<i>Ardea cinerea</i> 	Gray Heron; Grey Heron	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC 	<input type="checkbox"/>	<input type="checkbox"/>		Foraging. See textbox below the table and in section 3.1.
CHORDATA/AVES	<i>Aythya ferina</i> 	Common Pochard	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				VU 	<input type="checkbox"/>	<input type="checkbox"/>	Swedish Red List 2015 (VU).	Staging. See textbox below the table and in section 3.1.
CHORDATA/AVES	<i>Botaurus stellaris</i> 	Eurasian Bittern	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC 	<input type="checkbox"/>	<input type="checkbox"/>	Swedish Red List 2015 (NT). EC Birds Directive Annex I.	See textbox below the table and in section 3.1.
CHORDATA/AVES	<i>Bucephala clangula</i> 	Common Goldeneye	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC 	<input type="checkbox"/>	<input type="checkbox"/>		Breeding, staging, foraging. See textbox below the table and in section 3.1.
CHORDATA/AVES	<i>Chlidonias niger</i> 	Black Tern	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC 	<input type="checkbox"/>	<input type="checkbox"/>	Swedish Red List 2015 (VU). EC Habitats Directive Annex II.	Breeding, staging, foraging. See textbox below the table and in section 3.1.

Phylum	Scientific name	Common name	Species qualifies under criterion			Species contributes under criterion				Pop. Size	Period of pop. Est.	% occurrence ¹⁾	IUCN Red List	CITES Appendix I	CMS Appendix I	Other Status	Justification
			2	4	6	9	3	5	7								
CHORDATA/AVES	<i>Chroicocephalus ridibundus</i> 	Black-headed Gull	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC 	<input type="checkbox"/>	<input type="checkbox"/>		Breeding, foraging. See textbox below the table and in section 3.1.
CHORDATA/AVES	<i>Circus aeruginosus</i> 	Western Marsh Harrier	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC 	<input type="checkbox"/>	<input type="checkbox"/>		Foraging, breeding. See textbox below the table and in section 3.1.
CHORDATA/AVES	<i>Circus cyaneus</i> 	Northern Harrier	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC 	<input type="checkbox"/>	<input type="checkbox"/>	Swedish Red List 2015 (NT). EC Birds Directive Annex I.	Foraging during migration. See textbox below the table and in section 3.1.
CHORDATA/AVES	<i>Gallinago gallinago</i> 	Common Snipe	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC 	<input type="checkbox"/>	<input type="checkbox"/>		Foraging, staging. See textbox below the table and in section 3.1.
CHORDATA/AVES	<i>Gavia arctica</i> 	Arctic Loon; Black-throated Loon	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	40			LC 	<input type="checkbox"/>	<input type="checkbox"/>	EC Birds Directive Annex I.	Breeding, staging, foraging. See textbox below the table and in section 3.1.
CHORDATA/AVES	<i>Haliaeetus albicilla</i> 	White-tailed Eagle	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC 	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Swedish Red List 2015 (NT). EC Birds Directive Annex I.	Foraging. See textbox below the table and in section 3.1.
CHORDATA/AVES	<i>Mergus merganser</i> 	Common Merganser	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	20000	7		LC 	<input type="checkbox"/>	<input type="checkbox"/>		Criterion 6: Of the North-west & Central Europe (win) population (total 266000). Criterion 4: Refuge during the winter season. See textbox below and in section 3.1.
CHORDATA/AVES	<i>Mergus serrator</i> 	Red-breasted Merganser	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC 	<input type="checkbox"/>	<input type="checkbox"/>		Staging, probably breeding. See textbox below the table and in section 3.1.
CHORDATA/AVES	<i>Pandion haliaetus</i> 	Osprey, Western Osprey	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	45			LC 	<input type="checkbox"/>	<input type="checkbox"/>	EC Birds Directive Annex I.	Foraging. See textbox below the table and in section 3.1.
CHORDATA/AVES	<i>Podiceps cristatus</i> 	Great Crested Grebe	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC 	<input type="checkbox"/>	<input type="checkbox"/>		Breeding, foraging. See textbox below the table and in section 3.1.
CHORDATA/AVES	<i>Porzana porzana</i> 	Spotted Crane	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC 	<input type="checkbox"/>	<input type="checkbox"/>	Swedish Red List 2015 (VU).	See textbox below the table and in section 3.1.
CHORDATA/AVES	<i>Rallus aquaticus</i> 	Water Rail	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC 	<input type="checkbox"/>	<input type="checkbox"/>		See textbox below the table and in section 3.1.
CHORDATA/AVES	<i>Sterna hirundo</i> 	Common Tern	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC 	<input type="checkbox"/>	<input type="checkbox"/>	EC Birds Directive Annex I.	Breeding, foraging. See textbox below the table and in section 3.1.
CHORDATA/AVES	<i>Tringa totanus</i> 	Common Redshank	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC 	<input type="checkbox"/>	<input type="checkbox"/>		Breeding, staging, foraging. See textbox below the table and in section 3.1.
Fish, Mollusc and Crustacea																	
CHORDATA/ACTINOPTERYGII	<i>Anguilla anguilla</i> 	Eel	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				CR 	<input type="checkbox"/>	<input type="checkbox"/>	Swedish Red List 2015 (CR).	See textbox below the table and in section 3.1.
CHORDATA/ACTINOPTERYGII	<i>Gobio gobio</i> 	Gudgeon	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC 	<input type="checkbox"/>	<input type="checkbox"/>		See textbox below the table and in section 3.1.
MOLLUSCA/BIVALVIA	<i>Unio crassus</i> 	Thick Shelled River Mussel	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				EN 	<input type="checkbox"/>	<input type="checkbox"/>	Swedish Red List 2015 (EN). EC Habitats Directive Annex II.	See textbox below the table and in section 3.1.
Others																	
CHORDATA/MAMMALIA	<i>Lutra lutra</i> 	European Otter	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				NT 	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Swedish Red List 2015 (NT). EC Habitats Directive Annex II.	See textbox below the table and in section 3.1.

1) Percentage of the total biogeographic population at the site

Criterion 2, 3, 4, 5 and 6: For all species, their status in the Swedish Red List and general information for that classification as well as their distribution etc can be found at <http://artfakta.artdatabanken.se/>. Observation of the species can be found in the Swedish database for observations <http://www.artportalen.se/>. Data about bivalvia: <http://www.musselportalen.se/>.

3.4 - Ecological communities whose presence relates to the international importance of the site

<no data available>

4 - What is the Site like? (Ecological character description)

4.1 - Ecological character

The site Åsnen consists of a very large, shallow and mesotrophic lake, containing many bays and islands. The northern part of the lake is surrounded by flat meadows and marshlands which are liable to flooding. The rest of the surroundings have a relatively high proportion of broad-leaved deciduous forest. Other parts have a stony shoreline, giving way to coniferous forest with old pines. There are several bogs scattered around the lake. The mosaic and interaction of the limnic and terrestrial habitats is the key to the extraordinarily rich biodiversity in the site and its surroundings. The lake supports a rich variety of fish, including several rare species. The area also supports a rich community of breeding and resting birds.

4.2 - What wetland type(s) are in the site?

Inland wetlands

Wetland types (code and name)	Local name	Ranking of extent (1: greatest - 4: least)	Area (ha) of wetland type	Justification of Criterion 1
Fresh water > Flowing water >> M: Permanent rivers/ streams/ creeks		0		Representative
Fresh water > Lakes and pools >> O: Permanent freshwater lakes		1	14000	Representative
Fresh water > Marshes on inorganic soils >> Tp: Permanent freshwater marshes/ pools		0		
Fresh water > Marshes on peat soils >> U: Permanent Non-forested peatlands		3	500	Representative
Fresh water > Marshes on inorganic soils >> Xf: Freshwater, tree-dominated wetlands		0	300	Rare
Fresh water > Marshes on peat soils >> Xp: Permanent Forested peatlands		2	500	Representative

Human-made wetlands

Wetland types (code and name)	Local name	Ranking of extent (1: greatest - 4: least)	Area (ha) of wetland type	Justification of Criterion 1
4: Seasonally flooded agricultural land		4	300	Representative

Other non-wetland habitat

Other non-wetland habitats within the site	Area (ha) if known
Deciduous forest	
Coniferous forest	

4.3 - Biological components

4.3.1 - Plant species

Invasive alien plant species

Scientific name	Common name	Impacts	Changes at RIS update
<i>Nymphoides peltata</i>		Actually (minor impacts)	increase

4.3.2 - Animal species

<no data available>

4.4 - Physical components

4.4.1 - Climate

Climatic region	Subregion
D: Moist Mid-Latitude climate with cold winters	Dfb: Humid continental (Humid with severe winter, no dry season, warm summer)

Compared to the rest of the inland province, the surroundings of Lake Åsnen have a fairly mild climate. Average winter temperature (January) is minus 2 to minus 4 C°, while average summer temperature (July) is 15 to 17 C°.

4.4.2 - Geomorphic setting

a) Minimum elevation above sea level (in metres)

a) Maximum elevation above sea level (in metres)

- Entire river basin
- Upper part of river basin
- Middle part of river basin
- Lower part of river basin
- More than one river basin
- Not in river basin
- Coastal

Please name the river basin or basins. If the site lies in a sub-basin, please also name the larger river basin. For a coastal/marine site, please name the sea or ocean.

The site is situated in the river Mörrumsån catchment area. A number of small and larger rivers enter the lake Åsnen. The outlet from the lake is the river Mörrumsån, which finally ends in the Baltic sea. The catchment area is large, 3146 km².

4.4.3 - Soil

Mineral

(Update) Changes at RIS update No change Increase Decrease Unknown

Organic

(Update) Changes at RIS update No change Increase Decrease Unknown

No available information

Are soil types subject to change as a result of changing hydrological conditions (e.g., increased salinity or acidification)? Yes No

Please provide further information on the soil (optional)

The terrain is flat and the soil consists mostly of moraine. In the north a great part of the surrounding landscape consists of open fields and grasslands. South-west of the lake, the soils are mostly lean and washed-out. Wide stretches of rocks and boulders are common, both in the water and on land. Along the south-western shore, there is a steep esker.

4.4.4 - Water regime

Water permanence

Presence?	Changes at RIS update
Usually permanent water present	

Source of water that maintains character of the site

Presence?	Predominant water source	Changes at RIS update
Water inputs from surface water	<input checked="" type="checkbox"/>	No change
Water inputs from rainfall	<input type="checkbox"/>	No change

Water destination

Presence?	Changes at RIS update
To downstream catchment	No change

Stability of water regime

Presence?	Changes at RIS update
Water levels largely stable	No change

Please add any comments on the water regime and its determinants (if relevant). Use this box to explain sites with complex hydrology.

The lake Åsnen is regulated with a dam by the outflow. The site also includes Lake Lidhemssjön, which is a shallow, eutrophic lake that has been artificially lowered.

4.4.5 - Sediment regime

Sediment regime unknown

(EOD) Water turbidity and colour The water has been getting browner for about 20 years.

4.4.6 - Water pH

Circumneutral (pH: 5.5-7.4)

(Update) Changes at RIS update No change Increase Decrease Unknown

Unknown

Please provide further information on pH (optional):

The water quality of the lake has been restored by adding lime in the upper river basin to prevent negative effects from acid rain.

4.4.7 - Water salinity

Fresh (<0.5 g/l)

(Update) Changes at RIS update No change Increase Decrease Unknown

Unknown

4.4.8 - Dissolved or suspended nutrients in water

Mesotrophic

(Update) Changes at RIS update No change Increase Decrease Unknown

Unknown

4.4.9 - Features of the surrounding area which may affect the Site

Please describe whether, and if so how, the landscape and ecological characteristics in the area surrounding the Ramsar Site differ from the site itself. i) broadly similar ii) significantly different

Surrounding area has greater urbanisation or development

Surrounding area has higher human population density

Surrounding area has more intensive agricultural use

Surrounding area has significantly different land cover or habitat types

Please describe other ways in which the surrounding area is different:

There is a larger proportion of conifer forests, arable land and built up areas outside the site.

4.5 - Ecosystem services

4.5.1 - Ecosystem services/benefits

Provisioning Services

Ecosystem service	Examples	Importance/Extent/Significance
Wetland non-food products	Livestock fodder	Medium

Regulating Services

Ecosystem service	Examples	Importance/Extent/Significance
Erosion protection	Soil, sediment and nutrient retention	Low
Pollution control and detoxification	Water purification/waste treatment or dilution	Medium
Hazard reduction	Flood control, flood storage	Medium

Cultural Services

Ecosystem service	Examples	Importance/Extent/Significance
Recreation and tourism	Nature observation and nature-based tourism	High
Recreation and tourism	Picnics, outings, touring	Medium
Spiritual and inspirational	Cultural heritage (historical and archaeological)	Low
Scientific and educational	Educational activities and opportunities	Medium

Other ecosystem service(s) not included above:

The first people in the area arrived along the waterways, just after the inland ice retreated. There are plenty of ancient monuments in the area. In the Middle Ages several churches were built, with Jäts old church being the only one remaining today. The road structure was developed from the Middle Ages and forward. The area host the longest and most elegant vaulted stone bridge in the county at Blidingsholm, where you can also see ancient eel fishing constructions. As the Danish border was situated south of Åsnen until 1645, there are medieval defensive constructions at the lake's outflow. Huseby castle holds among the oldest ironworks in the county. It was started in the 17th century, using ore from the lake and water power from the river Mörrumsån. The agricultural landscape has been shaped by continuous cultivation for a long period of time. As railways were constructed west, south and east of Åsnen 1874-1900, the district was considerably affected, e.g. by the emergence of smaller urban areas. In earlier times, the floating of timber as well as transports on the lake was considerable. The lake is classified as being of national interest for commercial fishing (strong populations of several commercial species, notably Pike (*Esox lucius*) and Perch (*Perca fluviatilis*). The introduced crayfish (*Pacifastacus leniusculus*) is also subject to fishing.

Within the site: 50000

Outside the site: 50000

Have studies or assessments been made of the economic valuation of ecosystem services provided by this Ramsar Site? Yes No Unknown

4.5.2 - Social and cultural values

- i) the site provides a model of wetland wise use, demonstrating the application of traditional knowledge and methods of management and use that maintain the ecological character of the wetland
- ii) the site has exceptional cultural traditions or records of former civilizations that have influenced the ecological character of the wetland
- iii) the ecological character of the wetland depends on its interaction with local communities or indigenous peoples
- iv) relevant non-material values such as sacred sites are present and their existence is strongly linked with the maintenance of the ecological character of the wetland

<no data available>

4.6 - Ecological processes

<no data available>

5 - How is the Site managed? (Conservation and management)

5.1 - Land tenure and responsibilities (Managers)

5.1.1 - Land tenure/ownership

Public ownership

Category	Within the Ramsar Site	In the surrounding area
National/Federal government	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Private ownership

Category	Within the Ramsar Site	In the surrounding area
Other types of private/individual owner(s)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Provide further information on the land tenure / ownership regime (optional):

The site is mainly privately owned. The reserves within the site, as well as some other areas, are state-owned (approximately 10 % of the site). The surrounding areas are mainly owned by private people.

5.1.2 - Management authority

Please list the local office / offices of any agency or organization responsible for managing the site:

The Ramsar site in general is managed by the County Administrative Board. The in-situ management in the protected areas is taken care of the County Administrative Board. The in-situ management of the unprotected areas is taken care of by the land owners.

Provide the name and title of the person or people with responsibility for the wetland:

Kontaktperson för Ramsarområden, contact person for Ramsar sites

Postal address:

Länsstyrelsen i Kronobergs län
County Administrative Board
351 86 Växjö

E-mail address:

kronoberg@lansstyrelsen.se

5.2 - Ecological character threats and responses (Management)

5.2.1 - Factors (actual or likely) adversely affecting the Site's ecological character

Human settlements (non agricultural)

Factors adversely affecting site	Actual threat	Potential threat	Within the site	Changes	In the surrounding area	Changes
Housing and urban areas	Medium impact	Medium impact	<input type="checkbox"/>	No change	<input checked="" type="checkbox"/>	increase

Water regulation

Factors adversely affecting site	Actual threat	Potential threat	Within the site	Changes	In the surrounding area	Changes
Canalisation and river regulation	Medium impact	Medium impact	<input checked="" type="checkbox"/>	No change	<input type="checkbox"/>	No change

Agriculture and aquaculture

Factors adversely affecting site	Actual threat	Potential threat	Within the site	Changes	In the surrounding area	Changes
Annual and perennial non-timber crops	Medium impact	Medium impact	<input type="checkbox"/>	No change	<input checked="" type="checkbox"/>	decrease

Energy production and mining

Factors adversely affecting site	Actual threat	Potential threat	Within the site	Changes	In the surrounding area	Changes
Renewable energy	Medium impact	Low impact	<input type="checkbox"/>	No change	<input checked="" type="checkbox"/>	No change

Transportation and service corridors

Factors adversely affecting site	Actual threat	Potential threat	Within the site	Changes	In the surrounding area	Changes
Unspecified	Medium impact	Medium impact	<input checked="" type="checkbox"/>	increase	<input type="checkbox"/>	No change

Biological resource use

Factors adversely affecting site	Actual threat	Potential threat	Within the site	Changes	In the surrounding area	Changes
Logging and wood harvesting	Medium impact	Medium impact	<input checked="" type="checkbox"/>	No change	<input checked="" type="checkbox"/>	No change
Hunting and collecting terrestrial animals	Low impact	Low impact	<input checked="" type="checkbox"/>	No change	<input type="checkbox"/>	No change

Human intrusions and disturbance

Factors adversely affecting site	Actual threat	Potential threat	Within the site	Changes	In the surrounding area	Changes
Recreational and tourism activities	Low impact	Medium impact	<input checked="" type="checkbox"/>	No change	<input checked="" type="checkbox"/>	No change

Natural system modifications

Factors adversely affecting site	Actual threat	Potential threat	Within the site	Changes	In the surrounding area	Changes
Dams and water management/use	Medium impact	Medium impact	<input checked="" type="checkbox"/>	No change	<input type="checkbox"/>	No change

Invasive and other problematic species and genes

Factors adversely affecting site	Actual threat	Potential threat	Within the site	Changes	In the surrounding area	Changes
Invasive non-native/ alien species	Medium impact	High impact	<input type="checkbox"/>	increase	<input checked="" type="checkbox"/>	No change

Pollution

Factors adversely affecting site	Actual threat	Potential threat	Within the site	Changes	In the surrounding area	Changes
Agricultural and forestry effluents	High impact	High impact	<input type="checkbox"/>	No change	<input checked="" type="checkbox"/>	No change
Household sewage, urban waste water	High impact	High impact	<input type="checkbox"/>	No change	<input checked="" type="checkbox"/>	decrease

Please describe any other threats (optional):

Forestry is partly restricted, particularly in the nature reserves, but may outside protected areas locally constitute a threat to the natural values of the site. During breeding time, intensive recreational activities, mainly canoeing may cause disturbance to breeding birds such as Ospreys and Black-throated diver. For that reason, special waterways for canoeing have been introduced and people renting canoes are being informed about the restrictions. There are from time to time problems with thieves collecting eggs from bird nests. Probably forestry and agriculture (through run-off of nutrients) from surrounding land areas may be a threat to the water quality and some conservation values. Locally, discontinued cattle grazing creates problem. In recent time, transparency in the water has been reduced; the water is more "Brown", resulting in negative effects on flora and fauna. The causes for this change have not been clarified by the researchers. A number of local and regional roads and an old railway embankment cross the site.

5.2.2 - Legal conservation status

Regional (international) legal designations

Designation type	Name of area	Online information url	Overlap with Ramsar Site
EU Natura 2000	See national legislation below		partly

National legal designations

Designation type	Name of area	Online information url	Overlap with Ramsar Site
EU Natura 2000 SAC & SPA(1)	Husebymaden		partly
EU Natura 2000 SAC & SPA(2)	Tärningsö		partly
EU Natura 2000 SAC & SPA(3)	Agnäs		partly
EU Natura 2000 SAC & SPA(4)	Västra Åsnen		partly
EU Natura 2000 SAC & SPA(5)	Östra Åsnen		partly
EU Natura 2000 SAC & SPA(6)	Långö		partly
EU Natura 2000 SAC (1)	Strandäng vid Skatelövsfjorden		partly
EU Natura 2000 SAC (2)	Torne		partly
EU Natura 2000 SAC (3)	Lidhem		partly
EU Natura 2000 SAC (4)	Tåget		partly
EU Natura 2000 SAC (5)	Sännahult		partly
EU Natura 2000 SAC (6)	Lunnabacken		partly
EU Natura 2000 SAC (7)	Hunshult		partly

Designation type	Name of area	Online information url	Overlap with Ramsar Site
Nature reserve (1)	Husebymaden	http://www.lansstyrelsen.se/kronoberg/Svdjur-och-natur/skyddad-natur/naturreservat/husebymaden/Pages/index.aspx	partly
Nature reserve (10)	Hunshult	http://www.lansstyrelsen.se/kronoberg/Svdjur-och-natur/skyddad-natur/naturreservat/hunshult/Pages/index.aspx	partly
Nature reserve (11)	Torne bokskog	http://www.lansstyrelsen.se/kronoberg/Svdjur-och-natur/skyddad-natur/naturreservat/torne-bokskog/Pages/default.aspx	partly
Nature reserve (12)	Grytö	http://www.lansstyrelsen.se/kronoberg/Svdjur-och-natur/skyddad-natur/naturreservat/gryto/Pages/index.aspx	partly
Nature reserve (13)	Lunnabacken	http://www.lansstyrelsen.se/kronoberg/Svdjur-och-natur/skyddad-natur/naturreservat/lunnabacken/Pages/index.aspx	partly
Nature reserve (2)	Bjurkärr	http://www.lansstyrelsen.se/kronoberg/Svdjur-och-natur/skyddad-natur/naturreservat/bjurkarr/Pages/index.aspx	partly
Nature reserve (3)	Långö	http://www.lansstyrelsen.se/kronoberg/Svdjur-och-natur/skyddad-natur/naturreservat/lango/Pages/index.aspx	partly
Nature reserve (4)	Toftåsa myr	http://www.lansstyrelsen.se/kronoberg/Svdjur-och-natur/skyddad-natur/naturreservat/toftasa-myr/Pages/index.aspx	partly
Nature reserve (5)	Västra Åsnens övärld	http://www.lansstyrelsen.se/kronoberg/Svdjur-och-natur/skyddad-natur/naturreservat/vastra-asnen-s-ovard/Pages/index.aspx	partly
Nature reserve (6)	Agnäs	http://www.lansstyrelsen.se/kronoberg/Svdjur-och-natur/skyddad-natur/naturreservat/agnas/Pages/index.aspx	partly
Nature reserve (7)	Utnäsuddens övärld	http://www.lansstyrelsen.se/kronoberg/Svdjur-och-natur/skyddad-natur/naturreservat/utnasuddens-ovard/Pages/index.aspx	partly
Nature reserve (8)	Hackekvarn	http://www.lansstyrelsen.se/kronoberg/Svdjur-och-natur/skyddad-natur/naturreservat/hackekvarn/Pages/default.aspx	partly
Nature reserve (9)	Ekefors	http://www.lansstyrelsen.se/kronoberg/Svdjur-och-natur/skyddad-natur/naturreservat/ekefors/Pages/default.aspx	partly
biotope protection areas			partly
bird sanctuary			partly
site of national importance for nature conservation	Åsnen	http://nypub.vic-metria.nu/handlingar/rest/dokument/202772	partly

Non-statutory designations

Designation type	Name of area	Online information url	Overlap with Ramsar Site
Important Bird Area	Lake Åsnen	http://datazone.birdlife.org/site/factsheet/lake-asnen-iba-sweden	partly

5.2.3 - IUCN protected areas categories (2008)

- Ia Strict Nature Reserve
- Ib Wilderness Area: protected area managed mainly for wilderness protection
- II National Park: protected area managed mainly for ecosystem protection and recreation
- III Natural Monument: protected area managed mainly for conservation of specific natural features
- IV Habitat/Species Management Area: protected area managed mainly for conservation through management intervention
- V Protected Landscape/Seascape: protected area managed mainly for landscape/seascape conservation and recreation
- VI Managed Resource Protected Area: protected area managed mainly for the sustainable use of natural ecosystems

5.2.4 - Key conservation measures

Legal protection

Measures	Status
Legal protection	Proposed

Other:

There are plans to make parts of the site a national park and preparations are on-going. The national park is planned to be inaugurated in 2017. It is about to contain 2200 hectares, about 1/7 of the whole site. It will contain lake areas, old broadleaved forests, mires and alluvial forests.

5.2.5 - Management planning

Is there a site-specific management plan for the site? Yes

Has a management effectiveness assessment been undertaken for the site? Yes No

If the site is a formal transboundary site as indicated in section Data and location > Site location, are there shared management planning processes with another Contracting Party? Yes No

5.2.6 - Planning for restoration

Is there a site-specific restoration plan? Yes, there is a plan

5.2.7 - Monitoring implemented or proposed

<no data available>

6 - Additional material

6.1 - Additional reports and documents

6.1.1 - Bibliographical references

Länsstyrelsen i Kronobergs län; Lessmark, O. 2013. Åsnen – limnologiskt kunskapsunderlag för nationalparksbildande. ISSN 1103-8209, Meddelande nr 2013:02.
Länsstyrelsen i Kronobergs län, 2004. Åsnen i översiktsplanen – Planeringsunderlag 2004. ISSN 1103-8209, meddelande 2004:34.
Länsstyrelsen i Kronobergs län; Nilsson, S. G. 1980. Häckfågelfaunan i sjön Åsnen.
Länsstyrelsen i Kronobergs län; Kahlman, J., Karlsson-Rolander, J. 2009. Häckfågelfaunan i sjön Åsnen, Kronobergs län.

6.1.2 - Additional reports and documents

i. taxonomic lists of plant and animal species occurring in the site (see section 4.3)

<no file available>

ii. a detailed Ecological Character Description (ECD) (in a national format)

<no file available>

iii. a description of the site in a national or regional wetland inventory

<no file available>

iv. relevant Article 3.2 reports

<no file available>

v. site management plan

<no file available>

vi. other published literature

<1 file(s) uploaded>

6.1.3 - Photograph(s) of the Site

Please provide at least one photograph of the site:



The west part of lake Åsnen, seen from south against north. (Länsstyrelsen i Kronobergs län, 06-09-2012)

6.1.4 - Designation letter and related data

Designation letter

<1 file(s) uploaded>

Date of Designation 1989-06-12